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Cys Pro Leu Ser Lys Ile Thr Tyr Gly Pro Val Phe Met Cys Leu Gln Ala Lys Trp Arg Leu Gln Thr Leu Arg Pro Pro Ile Phe Ile Arg Arg 150 Leu Val Ser Phe Ile Glu Phe Val Gly Trp Tyr Pro Leu His Glu Gln His Gly Met Val Glu Ile Thr Pro Tyr Lys Pro Thr Trp Cys Leu Gly Gly Leu Leu Thr Met Val Glu Glu Asn Leu Leu Asp Phe Val Arg Phe Thr Tyr Ser Ala Gly Ile Val Gln Ile Leu Leu Asp Phe Val Arg Phe 215 Met Gly Val Glu Gly Gly Val Gly Trp Arg His Trp His His His His His <210> 95 242 <211> <212> PRT <213> epstein-barr virus (EBV). <400> Met Val Asp Phe Leu Arg Gly Arg Ala Tyr Gly Leu Pro Tyr Leu Phe Trp Leu Ala Ala Ile His Arg Cys Gln Ala Ile Arg Lys Lys Arg Arg Ile Tyr Asp Leu Ile Glu Leu Gly Leu Cys Thr Leu Val Ala Met Leu Arg Leu Arg Ala Glu Ala Gln Val Lys Ile Glu Asp Pro Pro Phe Asn Ser Leu Thr Tyr Ser Ala Gly Ile Val Gln Ile Leu Leu Asp Phe Val Arg Phe Met Gly Val Glu Gly Gly Val Gly Trp Arg His Trp Ile Ala Leu Tyr Leu Gln Gln Asn Trp Trp Thr Leu Arg Ala Lys Phe Lys Gln Leu Leu Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Thr Tyr Gly 120 Pro Val Phe Met Cys Leu Gln Ala Lys Trp Arg Leu Gln Thr Leu Arg 135 Pro Pro Ile Phe Ile Arg Arg Leu Val Ser Phe Ile Glu Phe Val Gly

155

160

Trp Tyr Pro Leu His Glu Gln His Gly Met Val Glu Ile Thr Pro Tyr 170 Lys Pro Thr Trp Cys Leu Gly Gly Leu Leu Thr Met Val Glu Glu Asn Leu Leu Asp Phe Val Arg Phe Tyr Leu Leu Glu Met Leu Trp Arg Leu Gly Gln Gly Ser Pro Thr Ala Met Ala Val Leu Leu His Glu Glu Ser Met Val Gln Pro Pro Gln Leu Thr Leu Gln Val His His His His 230 235 240 His His <210> 96 669 <211> <212> <213> epstein-barr virus (EBV) <400> Met Glu Asp Pro Gly Phe Phe Asn Val Glu Ile Pro Glu Phe Pro Phe Tyr Pro Thr Cys Asn Val Cys Thr Ala Asp Val Asn Val Thr Ile Asn Phe Asp Val Gly Gly Lys Lys His Gln Leu Asp Leu Asp Phe Gly Gln Leu Thr Pro His Thr Lys Ala Val Tyr Gln Pro Arg Gly Ala Phe Gly Gly Ser Glu Asn Ala Thr Asn Leu Phe Leu Leu Glu Leu Leu Gly Ala Gly Glu Leu Ala Leu Thr Met Arg Ser Lys Lys Leu Pro Ile Asn Val 90 Thr Thr Gly Glu Glu Gln Gln Val Ser Leu Glu Ser Val Asp Val Tyr Phe Gln Asp Val Phe Gly Thr Met Trp Cys His His Ala Glu Met Gln 120 Asn Pro Val Tyr Leu Ile Pro Glu Thr Val Pro Tyr Ile Lys Trp Asp 135 Asn Cys Asn Ser Thr Asn Ile Thr Ala Val Val Arg Ala Gln Gly Leu 145 Asp Val Thr Leu Pro Leu Ser Leu Pro Thr Ser Ala Gln Asp Ser Asn Phe Ser Val Lys Thr Glu Met Leu Gly Asn Glu Ile Asp Ile Glu Cys 185

Ile	Met	Glu 195	Asp	Gly	Glu	Ile	Ser 200		Val	Leu	Pro	Gly 205	_	Asn	Lys
Phe	Asn 210	Ile	Thr	Cys	Ser	Gly 215	Tyr	Glu	Ser	His	Val 220	Pro	Ser	Gly	Gly
Ile 225	Leu	Thr	Ser	Thr	Ser 230	Pro	Val	Ala	Thr	Pro 235	Ile	Pro	Gly	Thr	Gly 240
Tyr	Ala	Tyr	Ser	Leu 245	Arg	Leu	Thr		Arg 250	Pro	Val	Ser	Arg	Phe 255	Leu
Gly	Asn	Asn	Ser 260	Ile	Leu	Tyr	Val	Phe 265	Tyr	Ser	Gly	Asn	Gly 270	Pro	Lys
Ala	Ser	Gly 275		Asp	Tyr	Cys	Ile 280	Gln	Ser	Asn	Ile	Val 285	Phe	Ser	Asp
Glu	Ile 290	Pro	Ala	Ser	Gln	Asp 295	Met	Pro	Thr	Asn	Thr 300	Thr	Asp	Ile	Thr
Tyr 305	Val	Gly	Asp	Asn	Ala 310	Thr	Tyr	Ser	Val	Pro 315	Met	Val	Thr	Ser	Glu 320
Asp	Ala	Asn	Ser	Pro 325	Asn	Val	Thr	Val	Thr 330	Ala	Phe	Trp	Ala	Trp 335	Pro
Asn	Asn	Thr	Glu 340	Thr	Asp	Phe	Lys	Суs 345	Lys	Trp	Thr	Leu	Thr 350	Ser	Gly
Thr	Pro	Ser 355	Gly	Cys	Glu	Asn	Ile 360	Ser	Gly	Ala	Phe	Ala 365	Ser	Asn	Arg
Thr	Phe 370	Asp	Ile	Thr	Val	Ser 375	Gly	Leu	Gly	Thr	Ala 380	Pro	Lys	Thr	Leu
Ile 385	Ile	Thr	Arg	Thr	Ala 390	Thr	Asn	Ala	Thr	Thr 395	Thr	Thr	His	Lys	Val 400
Ile	Phe	Ser	Lys	Ala 405	Pro	Glu	Ser	Thr	Thr 410	Thr	Ser	Pro	Thr	Leu 415	Asn
Thr	Thr	Gly	Phe 420	Ala	Asp	Pro	Asn	Thr 425	Thr	Thr	Gly	Val	Asp 430	Phe	Leu
Arg	Gly	Arg 435	Ala	Tyr	Gly	Leu	Pro 440	Tyr	Leu	Phe	Trp	Leu 445	Ala	Ala	Ile
His	Arg 450	Cys	Gln	Ala	Ile	Arg 455	Lys	Lys	Arg	Arg	Ile 460	Tyr	Asp	Leu	Ile
Glu 465	Leu	Val	Gln	Pro	Pro 470	Gln	Leu	Thr	Leu	Gln 475	Val	Gly	Leu	Cys	Thr 480
Leu	Val	Ala	Met	Leu 485	Arg	Leu	Arg	Ala	Glu 490	Ala	Gln	Val	Lys	Ile 495	Glu
Asp	Pro	Pro	Phe 500	Asn	Ser	Leu	Tyr	Leu 505	Leu	Glu	Met	Leu	Trp 510	Arg	Leu

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 Gly
 Gly
 Gly
 Ser
 Pro
 Thr
 Ala
 Met
 Ala
 Leu
 Leu
 Glu
 Glu

 Ser
 Met
 11e
 Ala
 Leu
 Tyr
 Leu
 Gln
 Gln
 Asn
 Trp
 Trp
 Thr
 Leu
 Arg
 Ala

 Lys
 Phe
 Lys
 Gln
 Leu
 Ser
 Ser
 Ser
 Ser
 Cys
 Pro
 Thr
 Leu
 Ser
 Lys

 545
 Phe
 Lys
 Gln
 Leu
 Leu
 Ser
 Ser
 Ser
 Ser
 Cys
 Pro
 Leu
 Leu
 Ser
 560

 Ile
 Thr
 Tyr
 Gly
 Pro
 Ile
 Phe
 Ile
 Arg
 Arg
 Leu
 Val
 Ser
 Phe
 Ile
 Ile

Met Glu Asp Pro Gly Phe Phe Asn Val Glu Ile Pro Glu Phe Pro Phe 1 5 10 15

Tyr Pro Thr Cys Asn Val Cys Thr Ala Asp Val Asn Val Thr Ile Asn 20 25 30

Phe Asp Val Gly Gly Lys Lys His Gln Leu Asp Leu Asp Phe Gly Gln 35 40 45

Leu Thr Pro His Thr Lys Ala Val Tyr Gln Pro Arg Gly Ala Phe Gly 50 55 60 .

Gly Ser Glu Asn Ala Thr Asn Leu Phe Leu Leu Glu Leu Leu Gly Ala 65 70 75 80

Gly Glu Leu Ala Leu Thr Met Arg Ser Lys Lys Leu Pro Ile Asn Val 85 90 95

Thr Thr Gly Glu Glu Gln Gln Val Ser Leu Glu Ser Val Asp Val Tyr
100 105 110

Phe Gln Asp Val Phe Gly Thr Met Trp Cys His His Ala Glu Met Gln 115 120 125

<210> 97 ·

<211> 669

<212> PRT

<213> epstein-barr virus (EBV)

<400> 97

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Asn Pro Val Tyr Leu Ile Pro Glu Thr Val Pro Tyr Ile Lys Trp Asp Asn Cys Asn Ser Thr Asn Ile Thr Ala Val Val Arg Ala Gln Gly Leu 150 Asp Val Thr Leu Pro Leu Ser Leu Pro Thr Ser Ala Gln Asp Ser Asn 165 170 175 Phe Ser Val Lys Thr Glu Met Leu Gly Asn Glu Ile Asp Ile Glu Cys Ile Met Glu Asp Gly Glu Ile Ser Gln Val Leu Pro Gly Asp Asn Lys Phe Asn Ile Thr Cys Ser Gly Tyr Glu Ser His Val Pro Ser Gly Gly Ile Leu Thr Ser Thr Ser Pro Val Ala Thr Pro Ile Pro Gly Thr Gly 230 Tyr Ala Tyr Ser Leu Arg Leu Thr Pro Arg Pro Val Ser Arg Phe Leu Gly Asn Asn Ser Ile Leu Tyr Val Phe Tyr Ser Gly Asn Gly Pro Lys 265 Ala Ser Gly Gly Asp Tyr Cys Ile Gln Ser Asn Ile Val Phe Ser Asp 285 Glu Ile Pro Ala Ser Gln Asp Met Pro Thr Asn Thr Thr Asp Ile Thr Tyr Val Gly Asp Asn Ala Thr Tyr Ser Val Pro Met Val Thr Ser Glu 310 · Asp Ala Asn Ser Pro Asn Val Thr Val Thr Ala Phe Trp Ala Trp Pro 330 Asn Asn Thr Glu Thr Asp Phe Lys Cys Lys Trp Thr Leu Thr Ser Gly Thr Pro Ser Gly Cys Glu Asn Ile Ser Gly Ala Phe Ala Ser Asn Arg Thr Phe Asp Ile Thr Val Ser Gly Leu Gly Thr Ala Pro Lys Thr Leu 370 375 Ile Ile Thr Arg Thr Ala Thr Asn Ala Thr Thr Thr His Lys Val 395 Ile Phe Ser Lys Ala Pro Glu Ser Thr Thr Thr Ser Pro Thr Leu Asn 405 410 Thr Thr Gly Phe Ala Asp Pro Asn Thr Thr Thr Gly Val Asp Phe Leu · 425 430 Arg Gly Arg Ala Tyr Gly Leu Pro Tyr Leu Phe Trp Leu Ala Ala Ile 440

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	His	Arg 450	Cys	Gln	Ala	Ile	Arg 455	Lys	Lys	s Arg	J Arg	7 Ile 460	э Туз)	r Ası) Ļeu	ılle
	Glu 465	Leu	Gly	· Leu	Суз	Thr 470	Leu	Val	Ala	Met	Let 475		J Lev	ı Arg	, Ala	Glu 480
	Ala	Gln	Val	Lys	Ile 485	Glu	Asp	Pro	Pro	Phe 490	e Asr	Ser	Let	ı Thr	Tyr 495	
	Ala ·	Gly	Ile	Val 500	Gln	Ile	Leu	Leu	Asp 505	Phe	· Val	. Arg	Phe	Met 510		Val
•	Glu	Gly	Gly 515	Val	, Gly	Trp	Arg	His 520	Trp	Ile	Ala	Leu	Туг 525	Leu	Gln	Gln
	Asn	Trp 530	Trp	Thr	Leu	Arg	Ala 535	Lys	Phe	Lys	Gln	Leu 540		Ser	Ser	Cys
	Ser 545	Ser	Cys	Pro	Leu	Ser. 550	Lys	Ile	Thr	Tyr	Gly 555		Val	Phe	Met	Cys 560
	Leu	Gln	Ala	Lys	Trp 565	Arg	Leu	Gln	Thr	Leu 570	Arg	Pro	Pro	Ile	Phe 575	Ile
	Arg	Arg	Leu	Val 580	Ser	Phe	Ile	Glu	Phe 585	Val	Gly	Trp	Tyr	Pro 590	Leu	His
	Glu	Gln	His 595	Gly	Met	Val	Glu	Ile 600	Thr	Pro	Tyr	Lys	Pro 605	Thr	Trp	Cys
	Leu	Gly 610	Gly	Leu	Leu	Thr	Met 615	Val	Glu	Glu	Asn	Leu 620	Leu	Asp	Phe	Val
	Arg 625	Phe	Tyr	Leu	Leu	Glu 630	Met	Leu	Trp	Arg	Leu 635	Gly	Gln	Gly.	Gly	Ser 640
	Pro	Thr	Ala	Met	Ala 645	Val	Leu	Leu	His	Glu 650	Glu	Ser	Met	Val	Gln 655	Pro
	Pro	Gln	Leu	Thr 660	Leu	Gln	Val	His	His 665	His	His	His	His			
	<210> 98 <211> 187 <212> PRT <213> epstein-barr virus (EBV) <400> 98															
	Ser :	Ser	Cys	Ser	Ser 5	Суз	Pro	Leu	Ser	Lys 10	Ile	His	Arg	Суз	Gln 15	Ala
	Ile	Arg	Lys	Lys 20	Cys	Leu	Gly	Gly	Leu 25	Leu	Thr	Met	Val	Leu 30	Thr	Ala
	Gly 1	Phe	Leu 35	Ile	Phe	Leu i	Arg	Leu 40	Arg	Ala	Glu	Ala	Gln 45	Val	Lys	Ile

Glu Asp Pro Pro Phe Asn Ser Leu Leu Ser Ala Trp Ile Leu Thr 50 55 60

Ile Pro Ile Val Ala Ile Val Ala Leu Val Arg Euu Arg Pro Gly Gly
Lys Lys Lys Ile Leu Lys Glu Pro Val His Gly Val Pro Leu Val Lys
Leu Trp Tyr Gln Leu Arg Pro Gly Gly Lys Lys Lys Lys Tyr Lys Leu Lys
Tyr Lys Leu Lys His Ile Val Trp Trp Glu Trp Trp Trp Thr Glu
Tyr Trp Glu Ile Lys Asp Thr Lys Glu Ala Leu Lys Arg Trp Ile Ile
Glu Glu Leu Arg Gln His Leu Met Thr Asn Asn Pro Pro Ile Pro

Val Val Thr Leu Trp Gln Arg Pro Leu Val Trp Ala Ser Arg Glu Leu
115 120 125

Glu Arg Phe Leu Leu Trp Lys Gly Glu Gly Ala Val Tyr Thr Ala Phe 130 135 140

Thr Ile Pro Ser Ile Ile Tyr Gln Glu Pro Phe Lys Asn Leu Lys Ser 145 150 155 160

<210> 99

<211> 246

<212> PRT

<213> Human immunodeficiency virus

<400> 99

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Leu Tyr Asn Thr Val Ala Thr Leu Ala Ile Ile Arg Ile Leu Gln Gln 165 170 175

Leu Ala Ile Phe Gln Ser Ser Met Thr Lys Val Ile Tyr Gln Tyr Met 180 185 190

Asp Asp Leu Leu Val Gly Pro Thr Pro Val Asn Ile Thr Pro Gln Asp 195 200 205

Leu Asn Thr Met Leu Tyr Leu Ala Trp Val Pro Ala His Lys Ala Leu 210 215 220

Val Glu Ile Cys Thr Glu Met Thr Leu Asn Ala Trp Val Lys Val Val 225 230 235 240

His His His His His 245

<210> 100

<211> 246

<212> PRT

<213> Human immunodeficiency virus

<400> 100

Ile Leu Lys Glu Pro Val His Gly Val Lys Arg Trp Ile Ile Leu Gly
1 10 15

Leu Asn Lys Thr Leu Asn Ala Trp Val Lys Val Val Lys Ile Glu Glu 20 25 30

Leu Arg Gln His Leu Tyr Thr Ala Phe Thr Ile Pro Ser Ile Trp Ala 35 40 45

Ser Arg Glu Leu Glu Arg Phe Pro Leu Val Lys Leu Trp Tyr Gln Leu 50 55 60

Leu Val Gly Pro Thr Pro Val Asn Ile Ile Pro Ile Val Ala Ile Val 65 70 75 80

Ala Leu Val Ser Leu Tyr Asn Thr Val Ala Thr Leu Met Thr Asn Asn 85 90 95

Pro Pro Ile Pro Val Leu Leu Trp Lys Gly Glu Gly Ala Val Thr Trp 100 105 110

Glu Thr Trp Trp Thr Glu Tyr Trp Ala Ile Phe Gln Ser Ser Met Thr 115 120 125

Lys Arg Leu Arg Pro Gly Gly Lys Lys Ala Leu Val Glu Ile Cys 130 135 140

Thr Glu Met Lys Leu Trp Val Thr Val Tyr Tyr Gly Val Tyr Leu Ala 145 150 155 160

Trp Val Pro Ala His Lys Ala Ile Ile Arg Ile Leu Gln Gln Leu Glu 165 170 175

Ile Lys Asp Thr Lys Glu Ala Leu Val Thr Leu Trp Gln Arg Pro Leu 180 185 190

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Val Ile Tyr Gln Glu Pro Phe Lys Asn Leu Lys Val Ile Tyr Gln Tyr 195 200 205

Met Asp Asp Leu Thr Pro Gln Asp Leu Asn Thr Met Leu Arg Pro Gly 210 215 220

Gly Lys Lys Tyr Lys Leu Lys Tyr Lys Leu Lys His Ile Val Trp 225 230 235 240

His His His His His 245

<210> 101

<211> 245

<212> PRT

<213> Hepatitis C virus

<400> 101

Leu Leu Phe Asn Ile Leu Gly Gly Trp Val Lys Thr Ser Glu Arg Ser 1 5 10 15

Gln Pro Arg Phe Leu Leu Leu Ala Asp Ala Arg Val Leu Leu Phe Leu 20 25 30

Leu Leu Ala Asp Ala Arg Leu Gly Val Arg Ala Thr Arg Lys Gly Val
35 40 45

Ala Gly Ala Leu Val Ala Phe Lys Leu Pro Gly Cys Ser Phe Ser Ile 50 55 60

Phe Arg Met Tyr Val Gly Gly Val Glu His Arg Val Ala Gly Ala Leu 65 70 75 80

Val Ala Phe Lys Asp Leu Met Gly Tyr Ile Pro Leu Val Leu Ile Phe 85 90 95

Cys His Ser Lys Lys Lys Ile Leu Ala Gly Tyr Gly Ala Gly Val His 100 105 110

Met Trp Asn Phe Ile Ser Gly Ile Gln Leu Phe Thr Phe Ser Pro Arg 115 120 125

Arg Val Gly Ile Tyr Leu Leu Pro Asn Arg Phe Trp Ala Lys His Met 130 135 140

Trp Asn Phe Tyr Leu Val Thr Arg His Ala Asp Val Leu Ser Ala Phe 145 150 155 160

Ser Leu His Ser Tyr Trp Met Asn Arg Leu Ile Ala Phe Ala Tyr Leu 165 170 175

Leu Pro Arg Arg Gly Pro Arg Leu Tyr Leu Val Ala Tyr Gln Ala Thr 180 185 190

Val Arg Leu Ile Val Phe Pro Asp Leu Gly Val Thr Leu Gly Phe Gly 195 200 205

Ala Tyr Met Ser Lys Ile Pro Phe Tyr Gly Lys Ala Ile Val Leu Val 210 215 220

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Gly Gly Val Leu Ala Ala Cys Thr Cys Gly Ser Ser Asp Leu Tyr His 225 230 235 240

His His His His 245

<210> 102

<211> 245

<212> PRT

<213> Hepatitis C virus

<400> 102

Tyr Leu Val Thr Arg His Ala Asp Val Trp Met Asn Arg Leu Ile Ala 1 5 10 15

Phe Ala Cys Thr Cys Gly Ser Ser Asp Leu Tyr Val Gly Ile Tyr Leu 20 25 30

Leu Pro Asn Arg Ile Leu Ala Gly Tyr Gly Ala Gly Val Leu Ile Phe 35 40 45

Cys His Ser Lys Lys His Met Trp Asn Phe Ile Ser Gly Ile Phe 50 55 60

Leu Leu Ala Asp Ala Arg Val Leu Leu Phe Leu Leu Leu Ala Asp 65 70 75 80

Ala Leu Ser Ala Phe Ser Leu His Ser Tyr Gly Val Ala Gly Ala Leu 85 90 95 $_{\tilde{\gamma}}$

Val Ala Phe Lys Lys Thr Ser Glu Arg Ser Gln Pro Arg Arg Leu Gly 100 105 110

Val Arg Ala Thr Arg Lys Asp Leu Met Gly Tyr Ile Pro Leu Val Val 115 120 125

Leu Val Gly Gly Val Leu Ala Ala Leu Leu Phe Asn Ile Leu Gly Gly 130 135 140

Trp Val Tyr Leu Val Ala Tyr Gln Ala Thr Val Tyr Leu Leu Pro Arg 145 150 155 160

Arg Gly Pro Arg Leu Phe Trp Ala Lys His Met Trp Asn Phe Gln Leu 165 170 175

Phe Thr Phe Ser Pro Arg Arg Leu Pro Gly Cys Ser Phe Ser Ile Phe 180 185 190

Ile Pro Phe Tyr Gly Lys Ala Ile Arg Met Tyr Val Gly Gly Val Glu 195 200 205

His Arg Thr Leu Gly Phe Gly Ala Tyr Met Ser Lys Arg Leu Ile Val 210 215 220

Phe Pro Asp Leu Gly Val Val Ala Gly Ala Leu Val Ala Phe Lys His 225 230 235 240

His His His His 245